

FIG.1

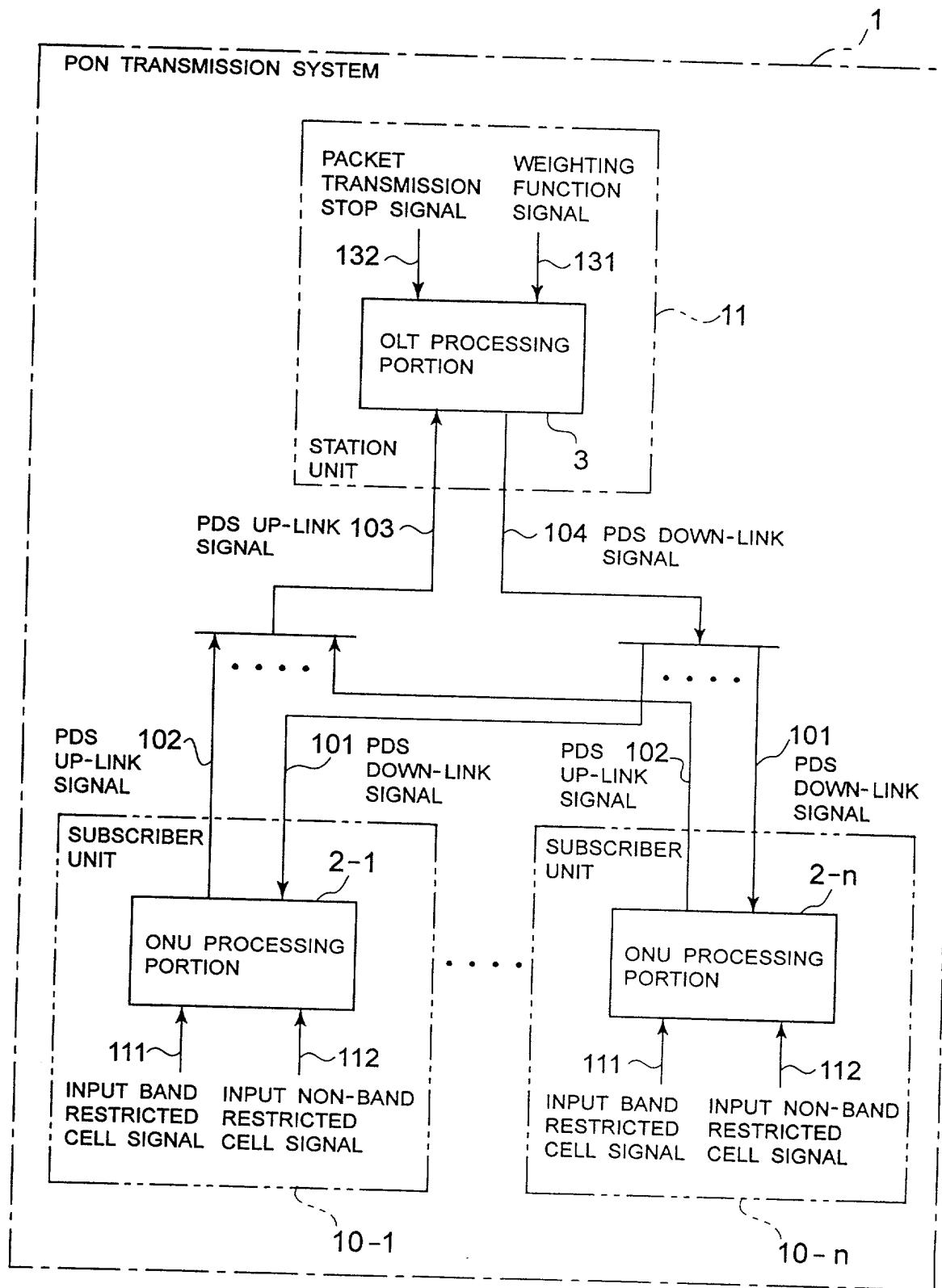


FIG. 2

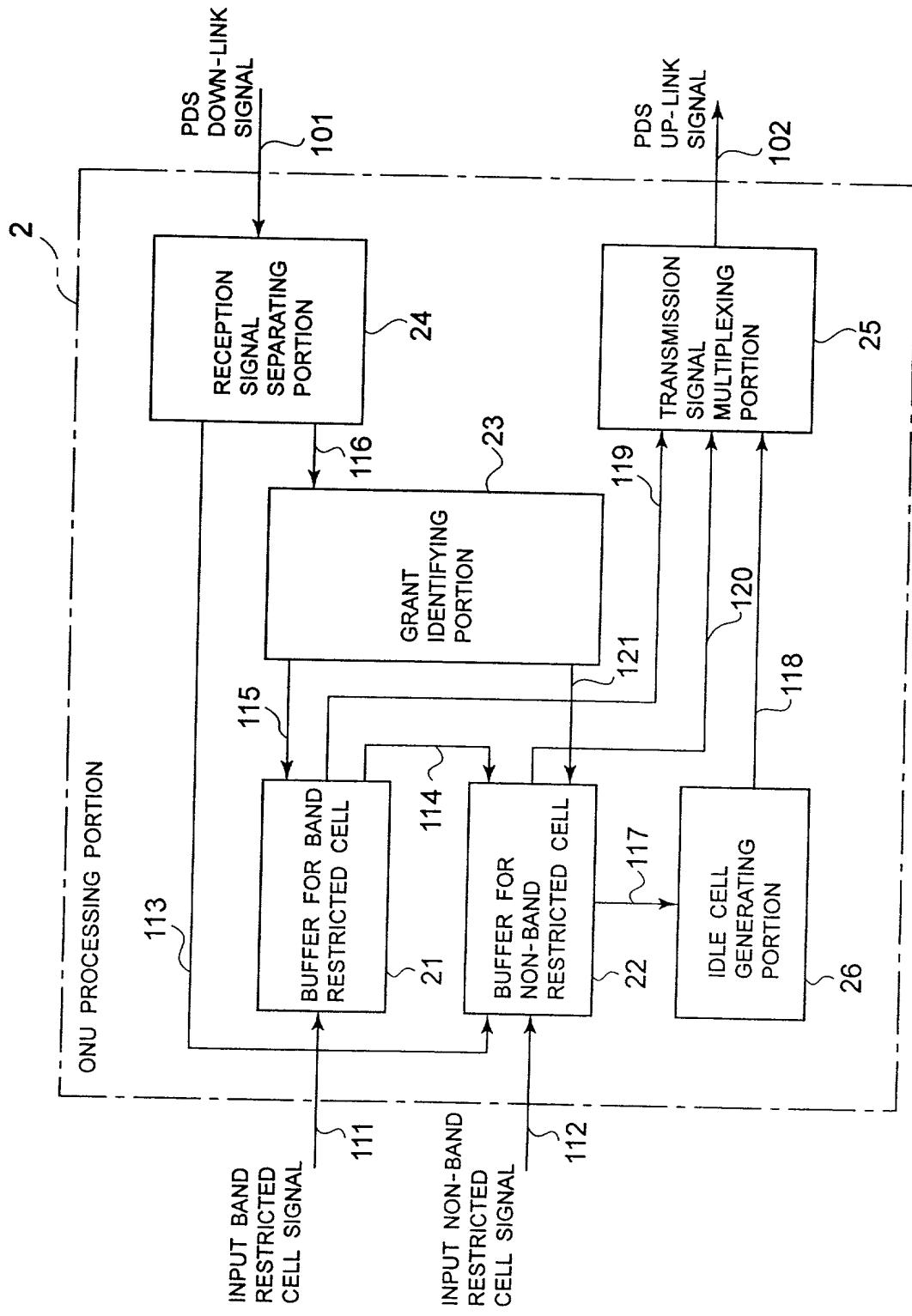
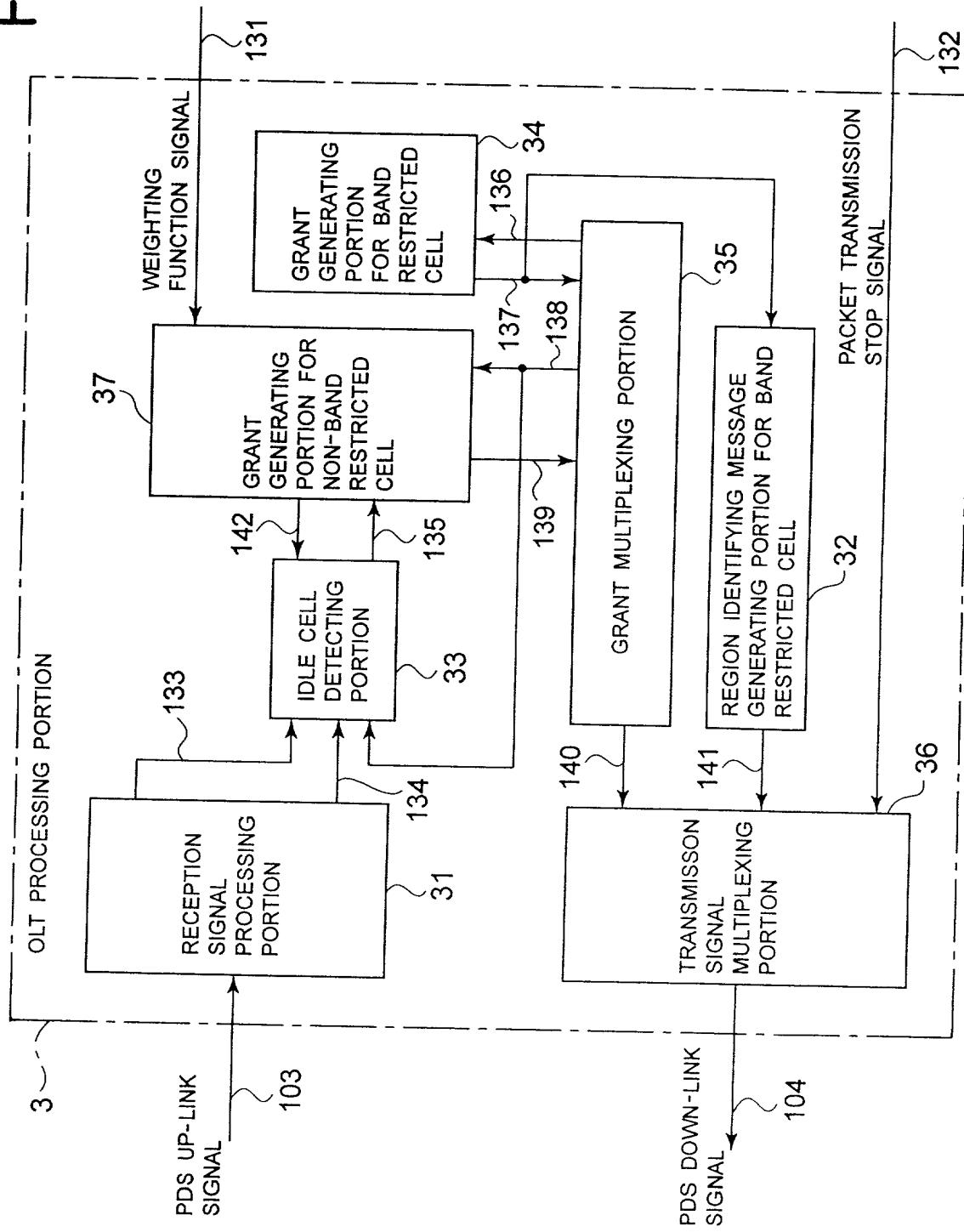


FIG. 3



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FIG. 4

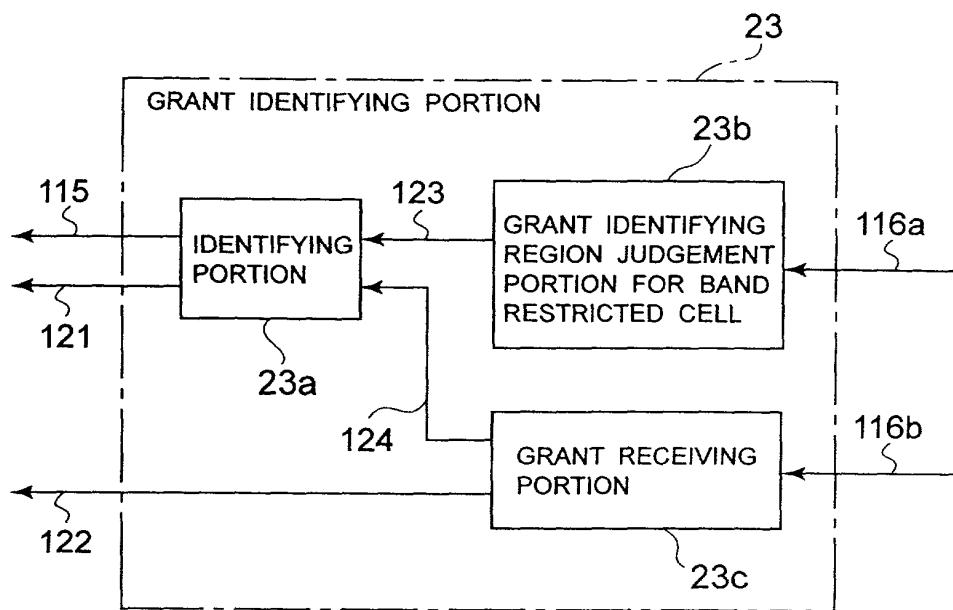


FIG. 5

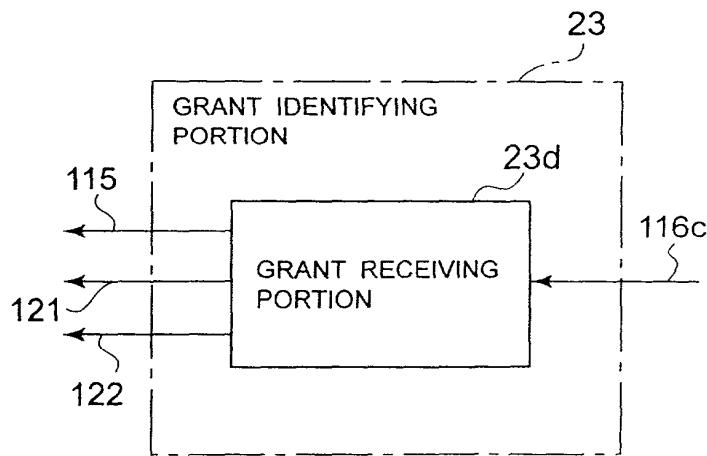
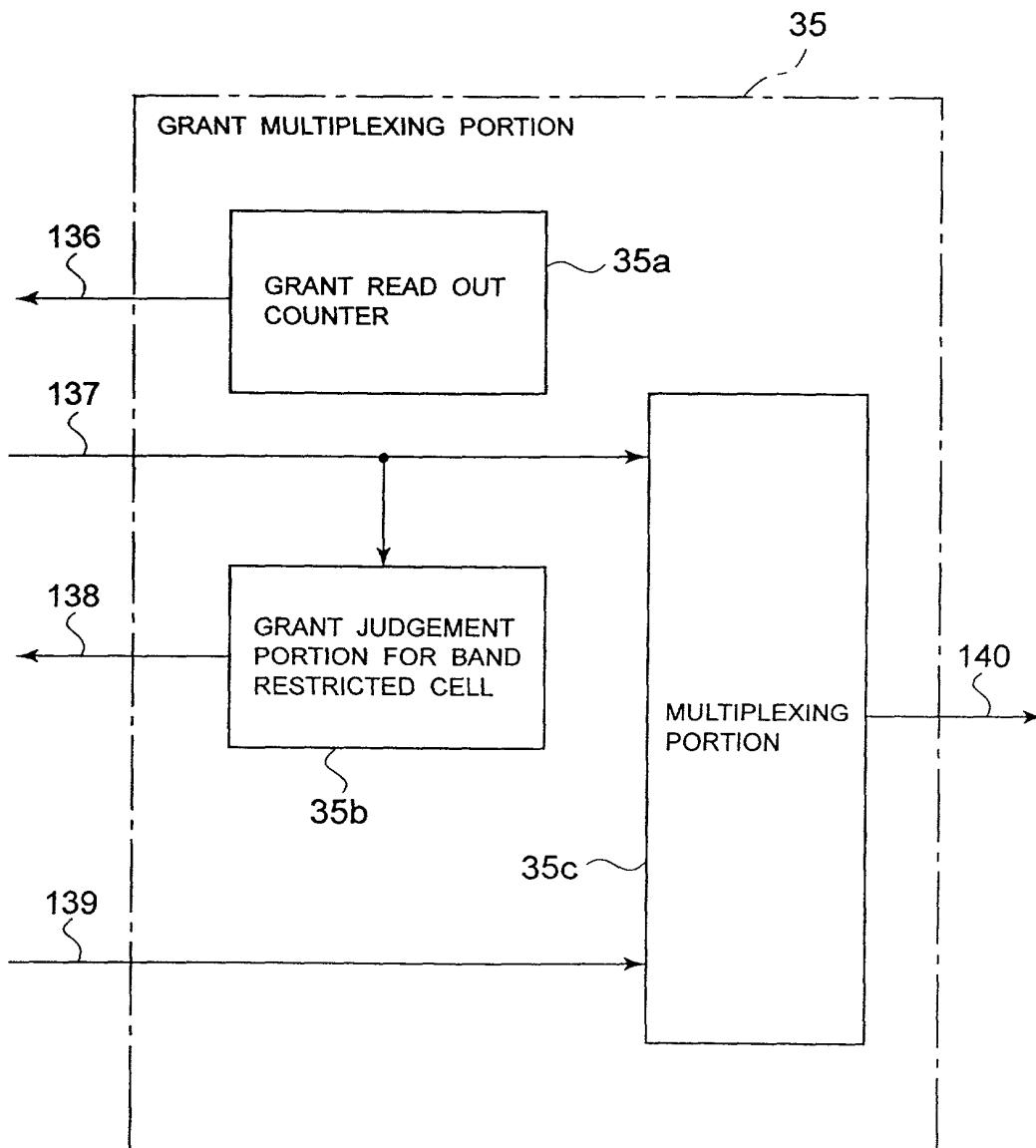
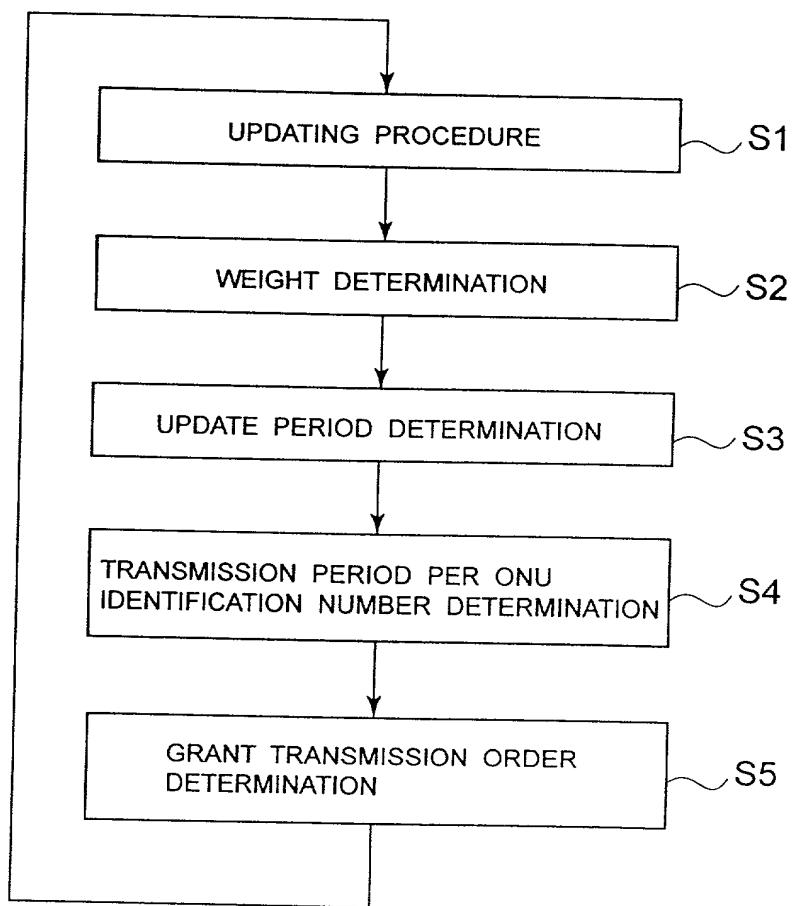


FIG. 6



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FIG.7



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FIG. 8

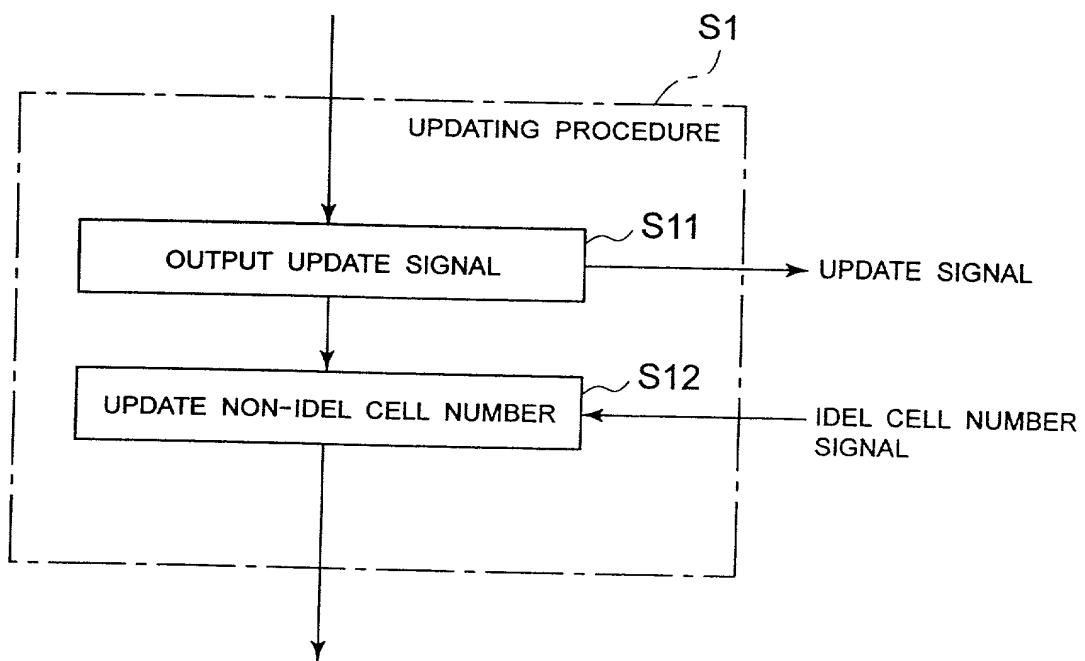


FIG. 9

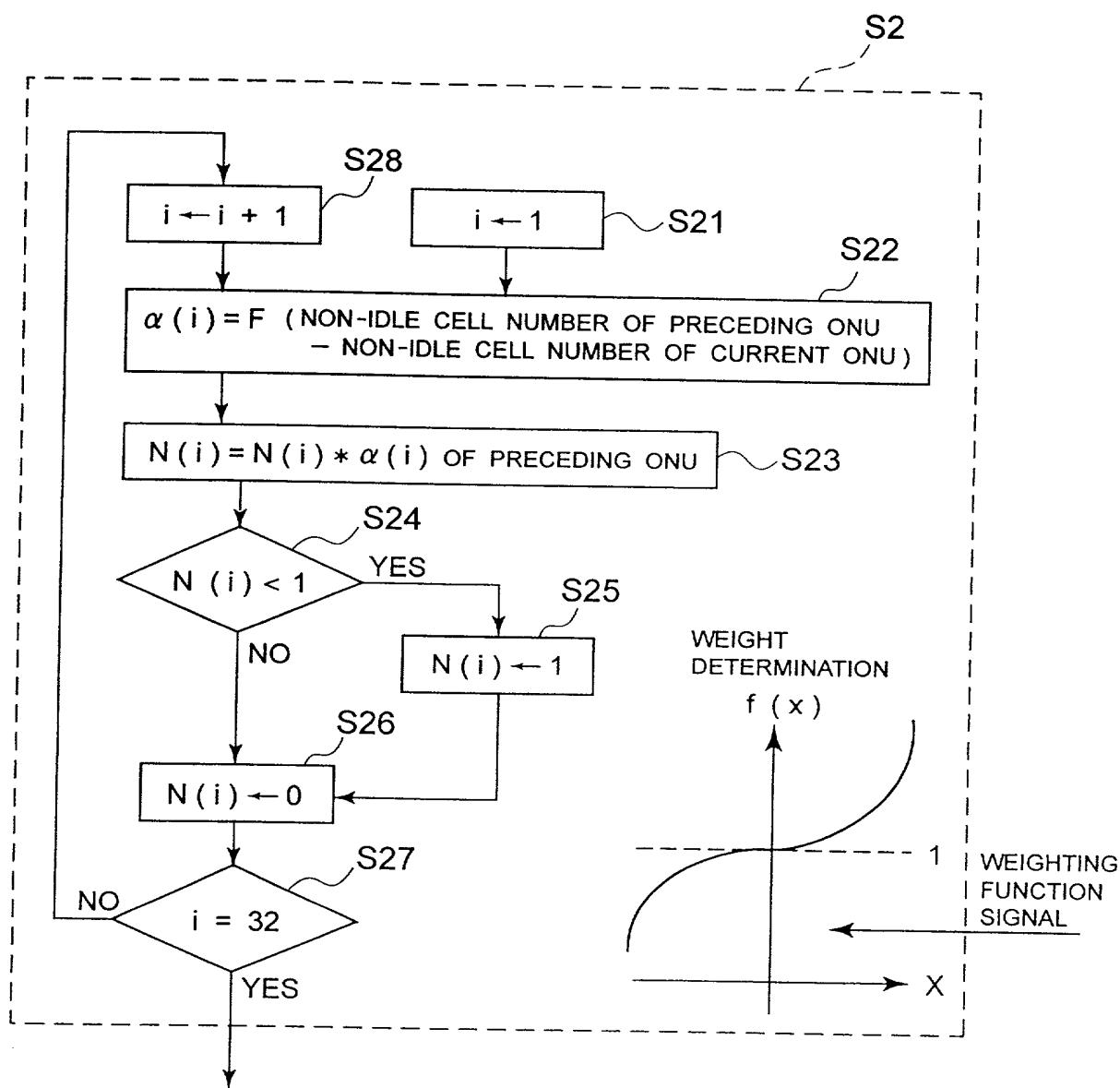
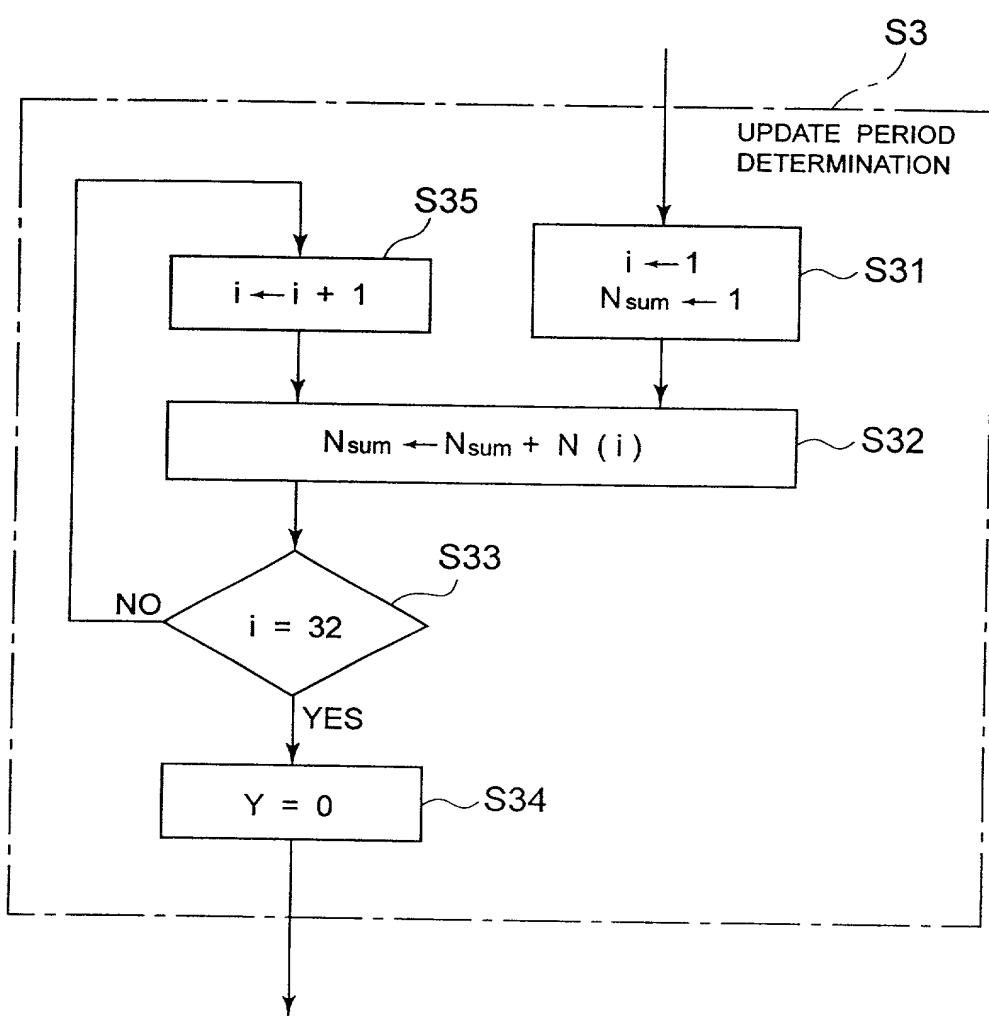
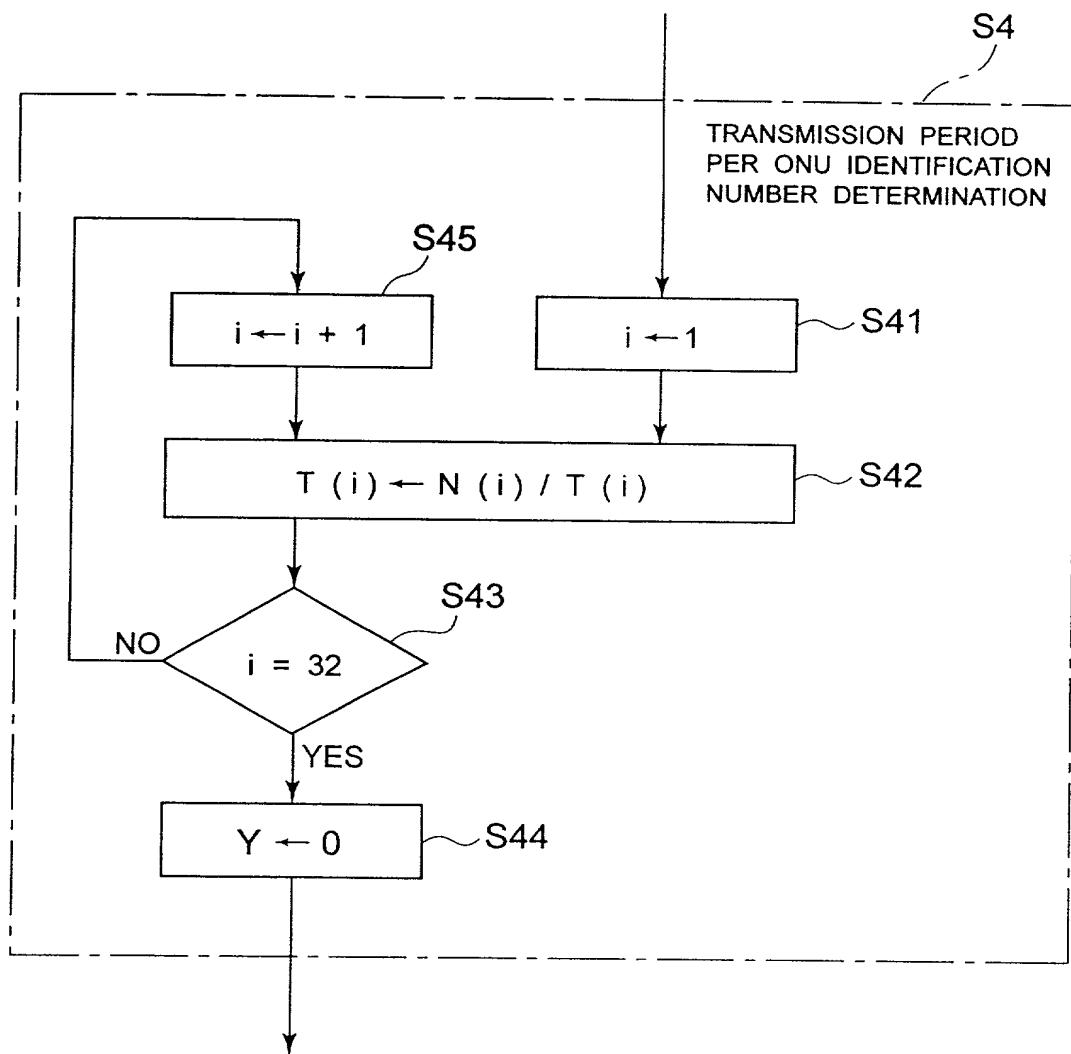


FIG.10



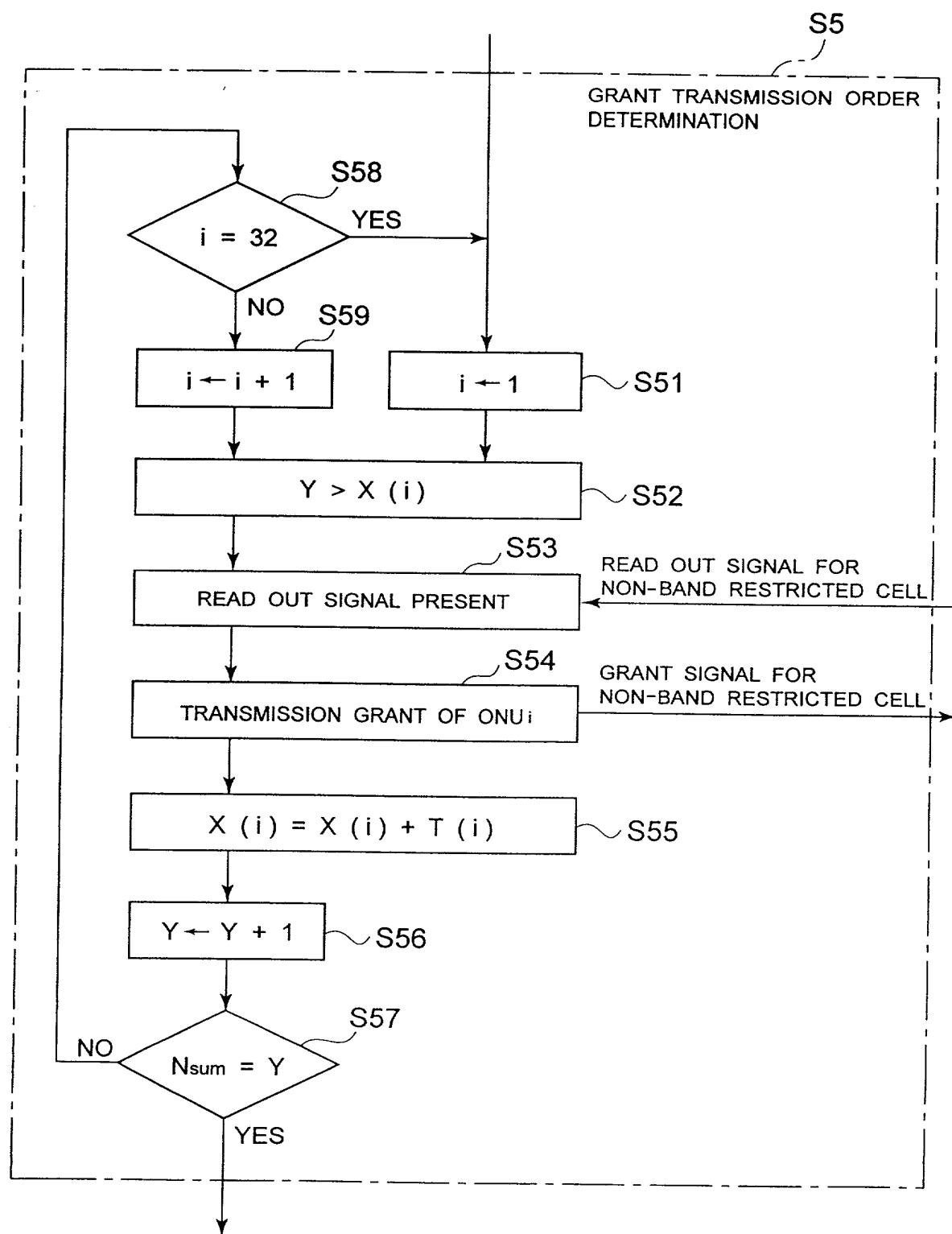
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FIG.11



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FIG.12



# FIG.13

VENDOR_SPECIFIC MESSAGE		
OCTET	CONTENTS	DESCRIPTION
35	Xxxxxxx	INDICATES ONU SOURCING THIS MESSAGE
36	01111zzz	MESSAGE IDENTIFICATION "VENDER_SPECIFIC"
37	n1	NUMBER OF REGION FOR BAND RESTRICTED CELL
38	m1	NUMBER OF REGION FOR NON-BAND RESTRICTED CELL
39	n2	NUMBER OF REGION FOR BAND RESTRICTED CELL
40	m2	NUMBER OF REGION FOR NON-BAND RESTRICTED CELL
41	n3	NUMBER OF REGION FOR BAND RESTRICTED CELL
42	m3	NUMBER OF REGION FOR NON-BAND RESTRICTED CELL
43	n4	NUMBER OF REGION FOR BAND RESTRICTED CELL
44	m4	NUMBER OF REGION FOR NON-BAND RESTRICTED CELL
45	0000000	COMMAND REPEATING
46	UNSPECIFIED	

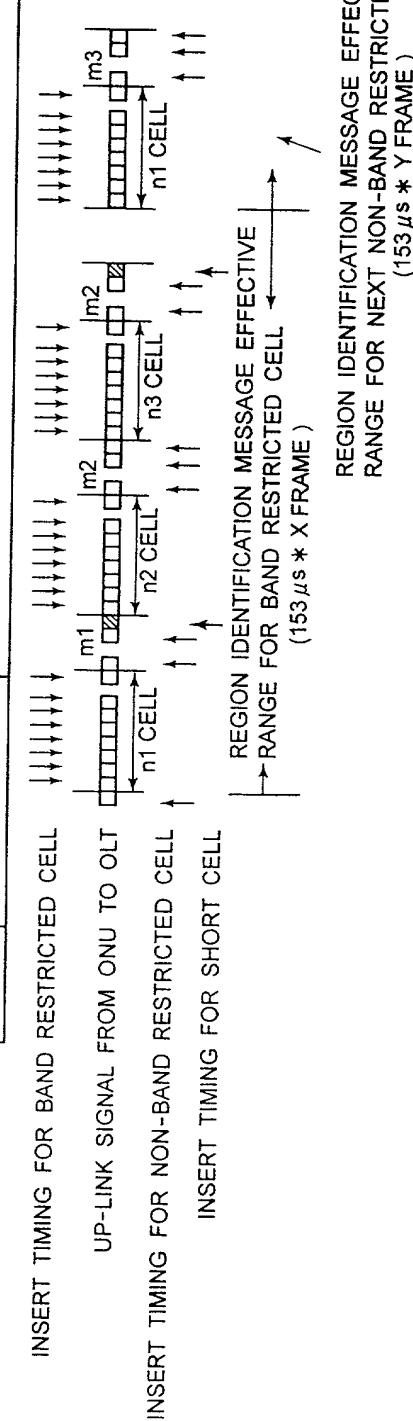
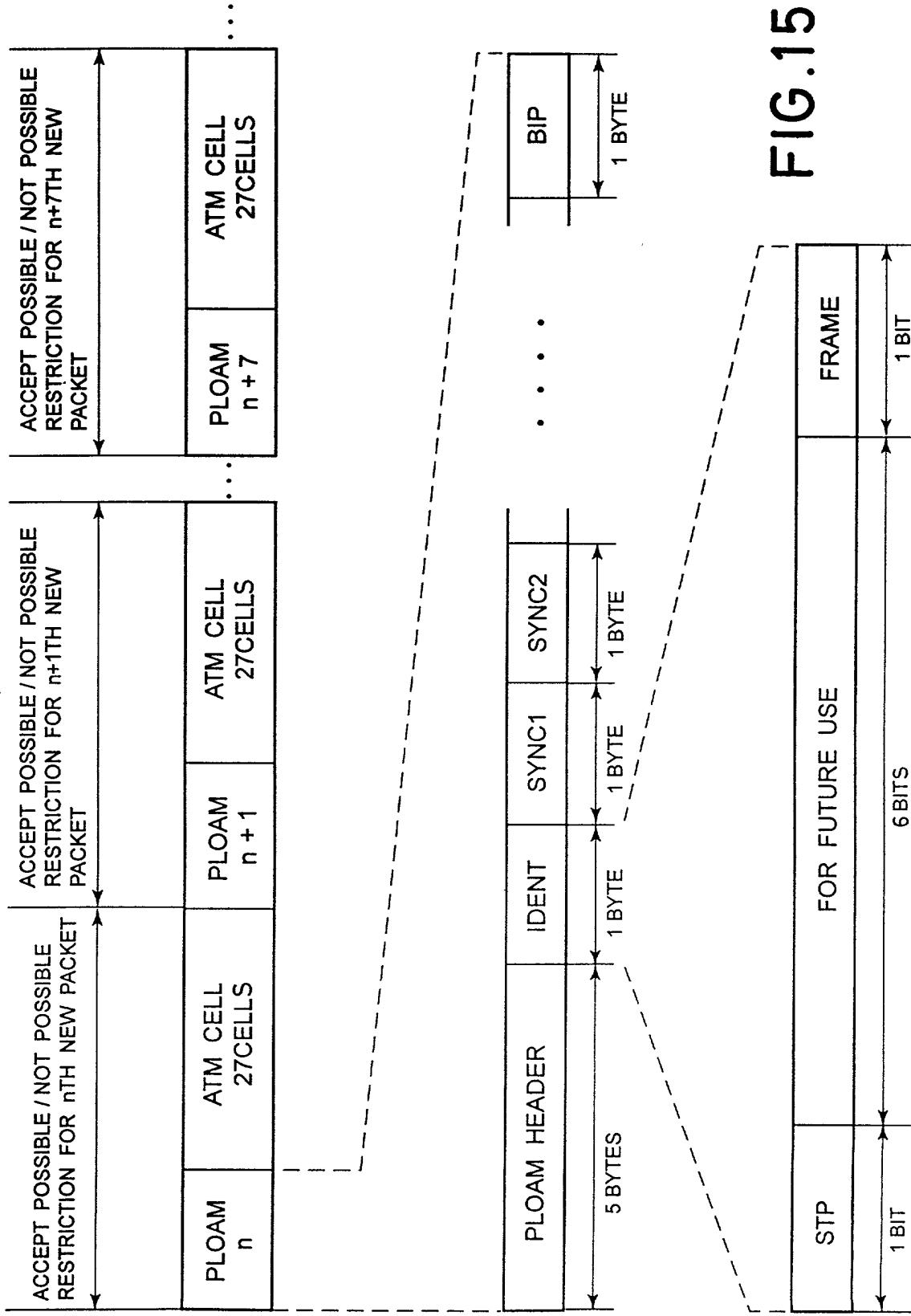


FIG. 14

GRANT_ALLOCATION MESSAGE		
OCTET	CONTENT	DESCRIPTION
35	PON_ID	DIRECTED MESSAGE TO ONE ONU
36	00001010	MESSAGE IDENTIFICATION "GRANT_ALLOCATION"
37	dddddddd	DATA GRANT ALLOCATED TO THE ONU WITH THIS PON_ID
38	0000000a	a:1 = ACTIVATE DATA GRANT FOR THIS ONU a:0 = DEACTIVATE DATA GRANT FOR THIS ONU
39	pppppppp	PLOAM GRANT ALLOCATED TO THE ONU WITH THIS PON_ID
40	0000000a	a:1 = ACTIVATE PLOAM GRANT FOR THIS ONU a:0 = DEACTIVATE PLOAM GRANT FOR THIS ONU
41	dddddddd	DATA GRANT ALLOCATED TO THE ONU WITH THIS PON_ID
42	0000000a	a:1 = ACTIVATE DATA GRANT FOR THIS ONU a:0 = DEACTIVATE DATA GRANT FOR THIS ONU
43, 46	UNSPECIFIED	

GRANT FOR BAND RESTRICTED CELL



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**FIG. 16**

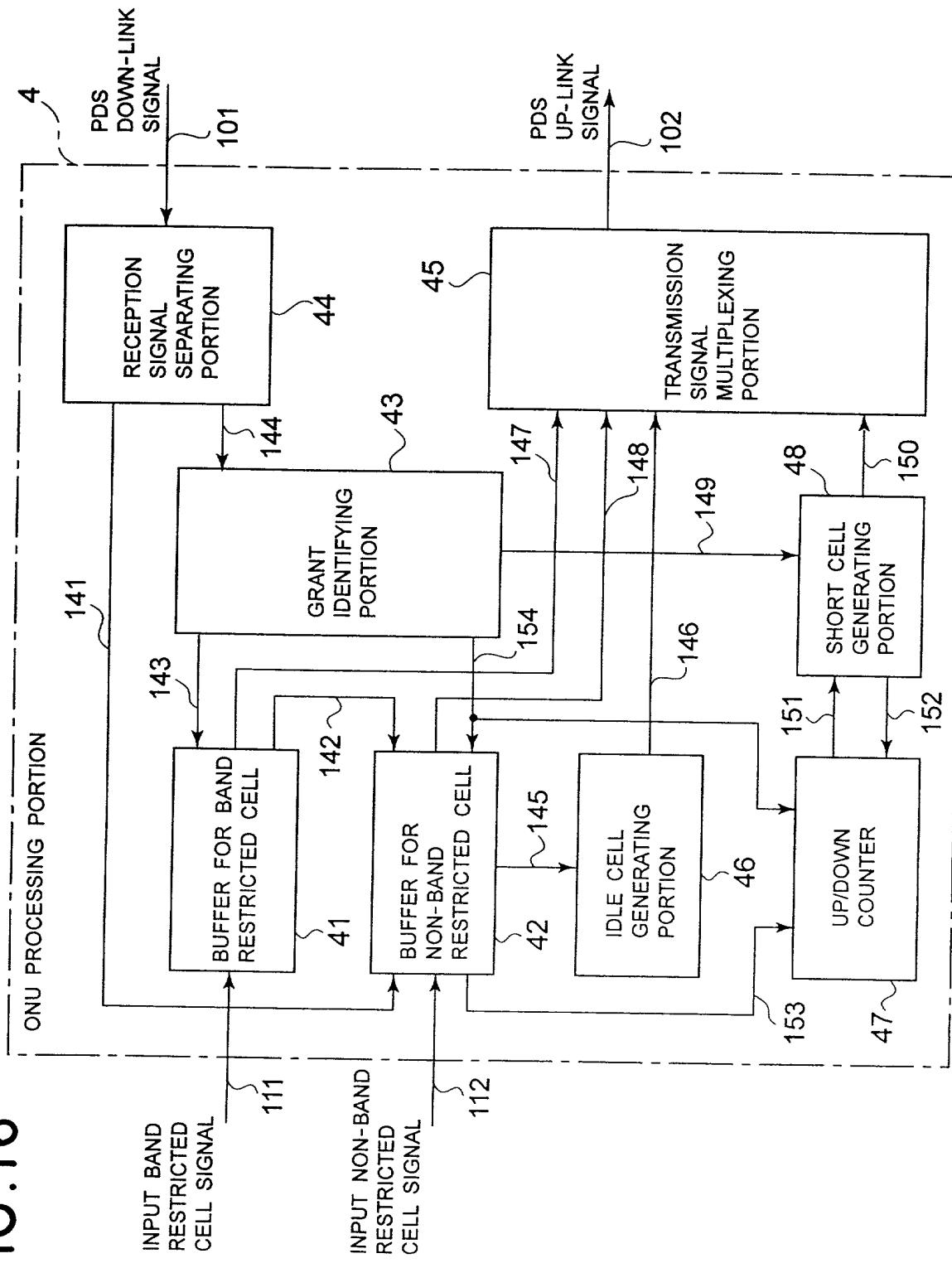
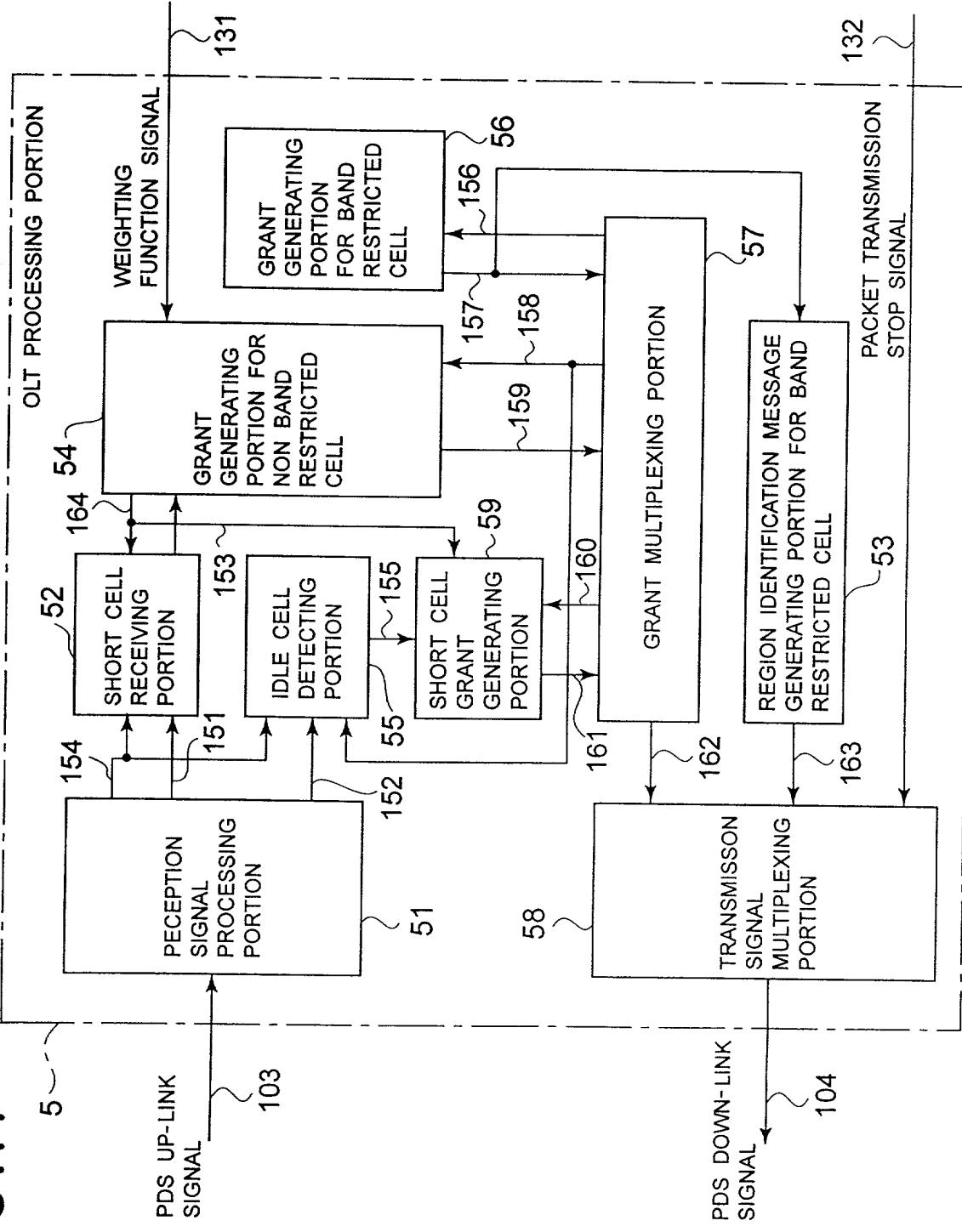
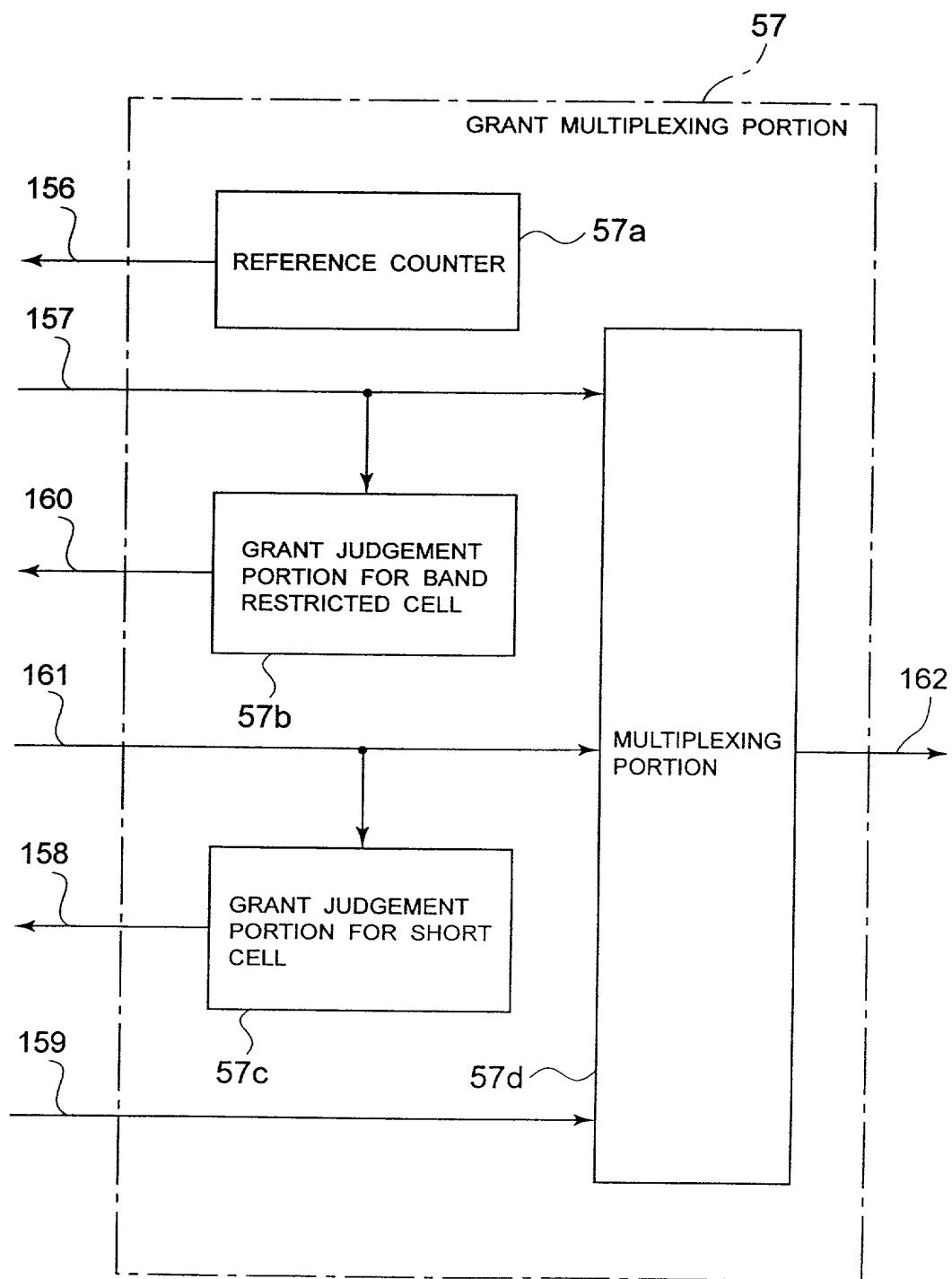


FIG.17



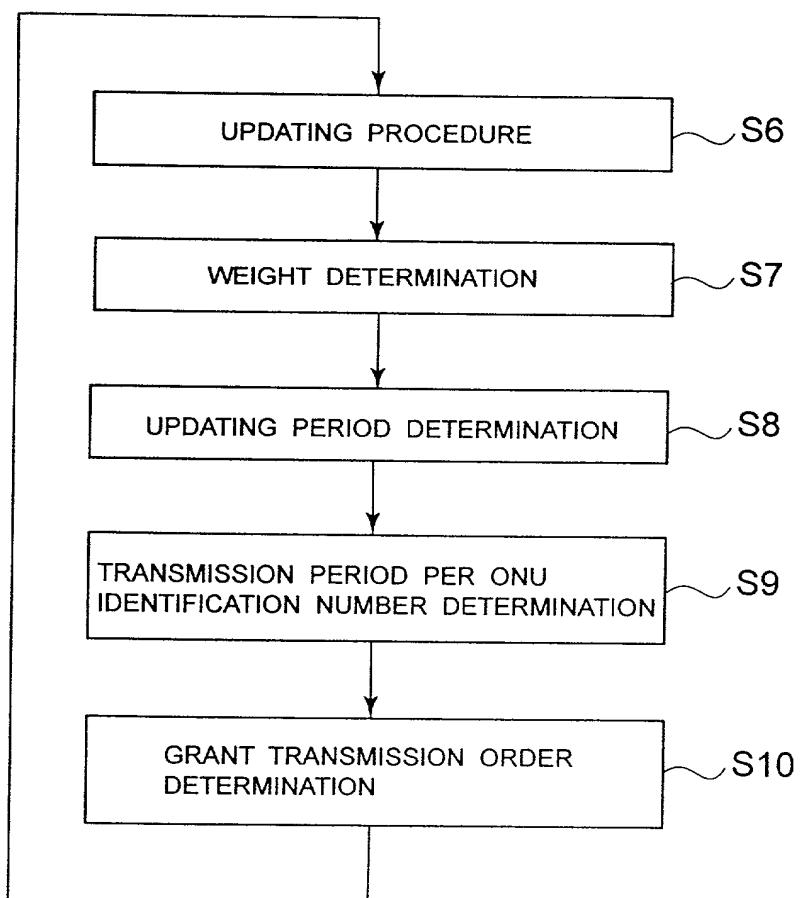
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FIG.18



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FIG.19



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FIG. 20

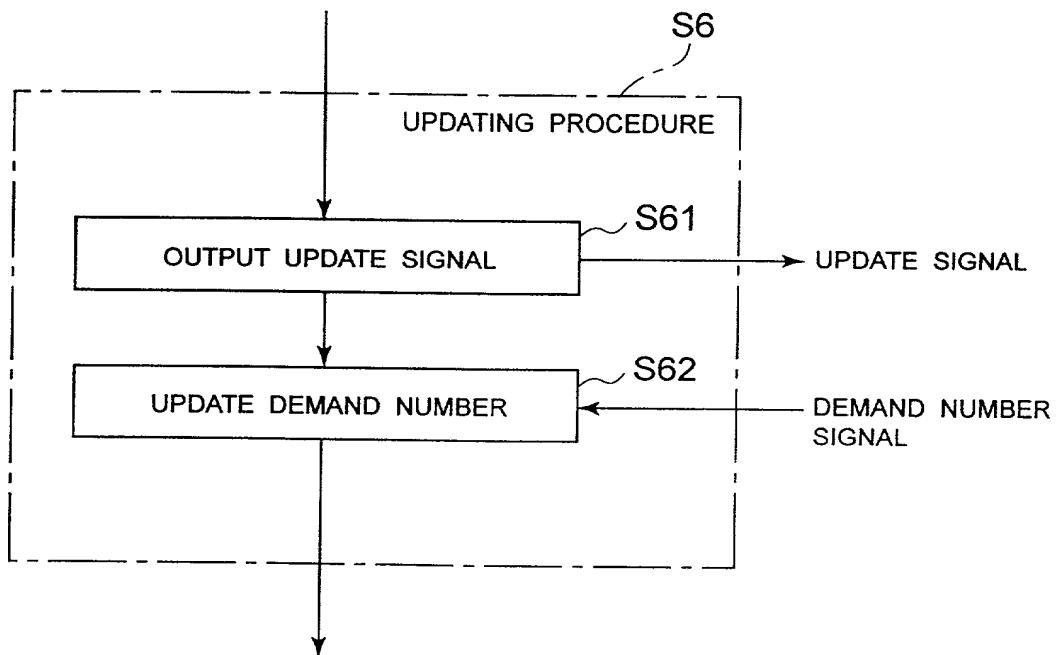
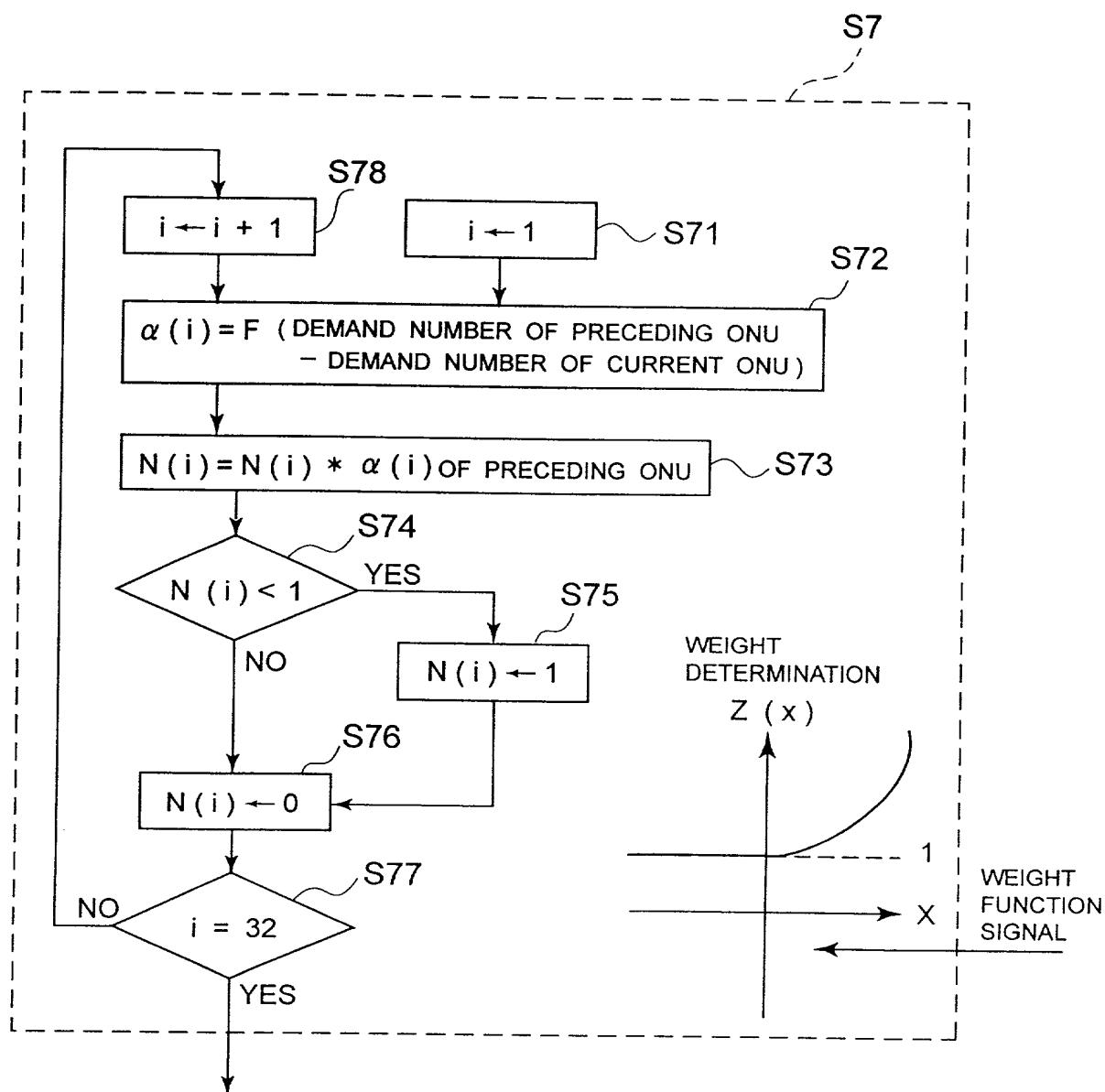
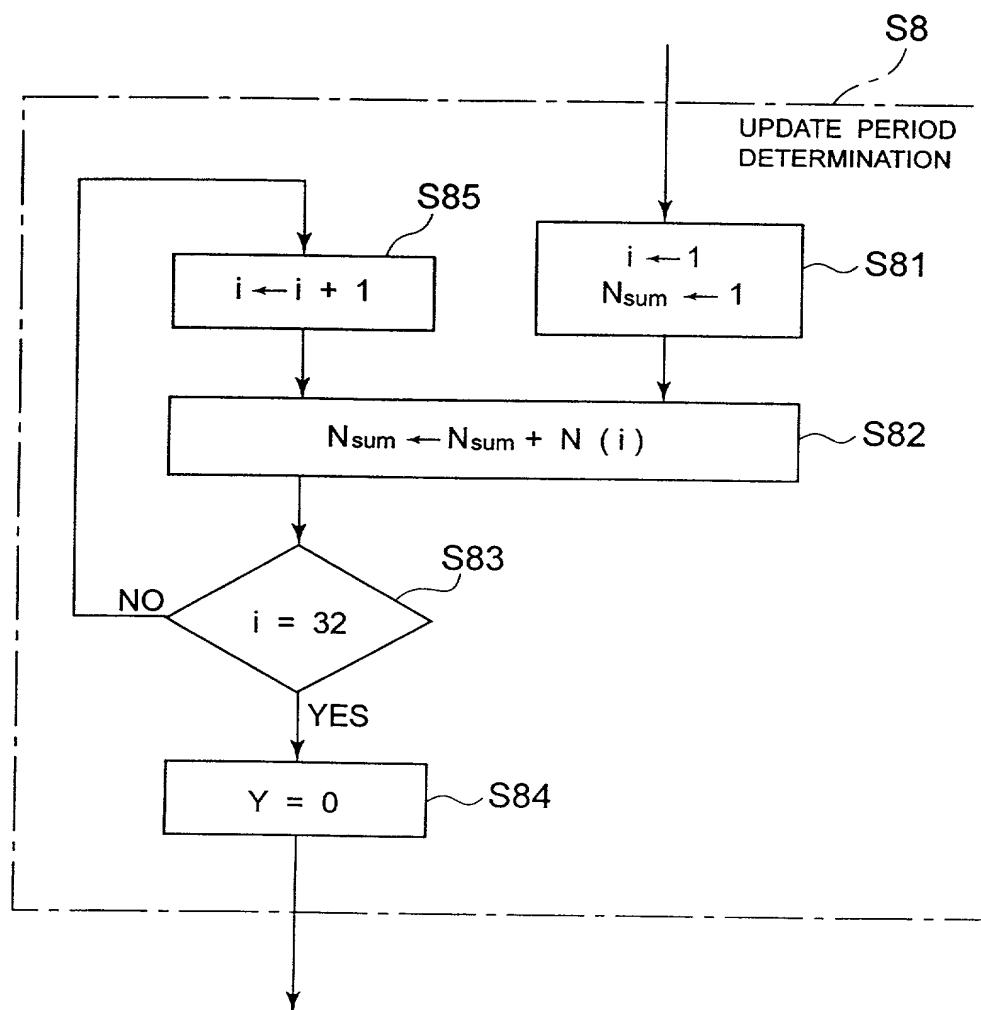


FIG.21



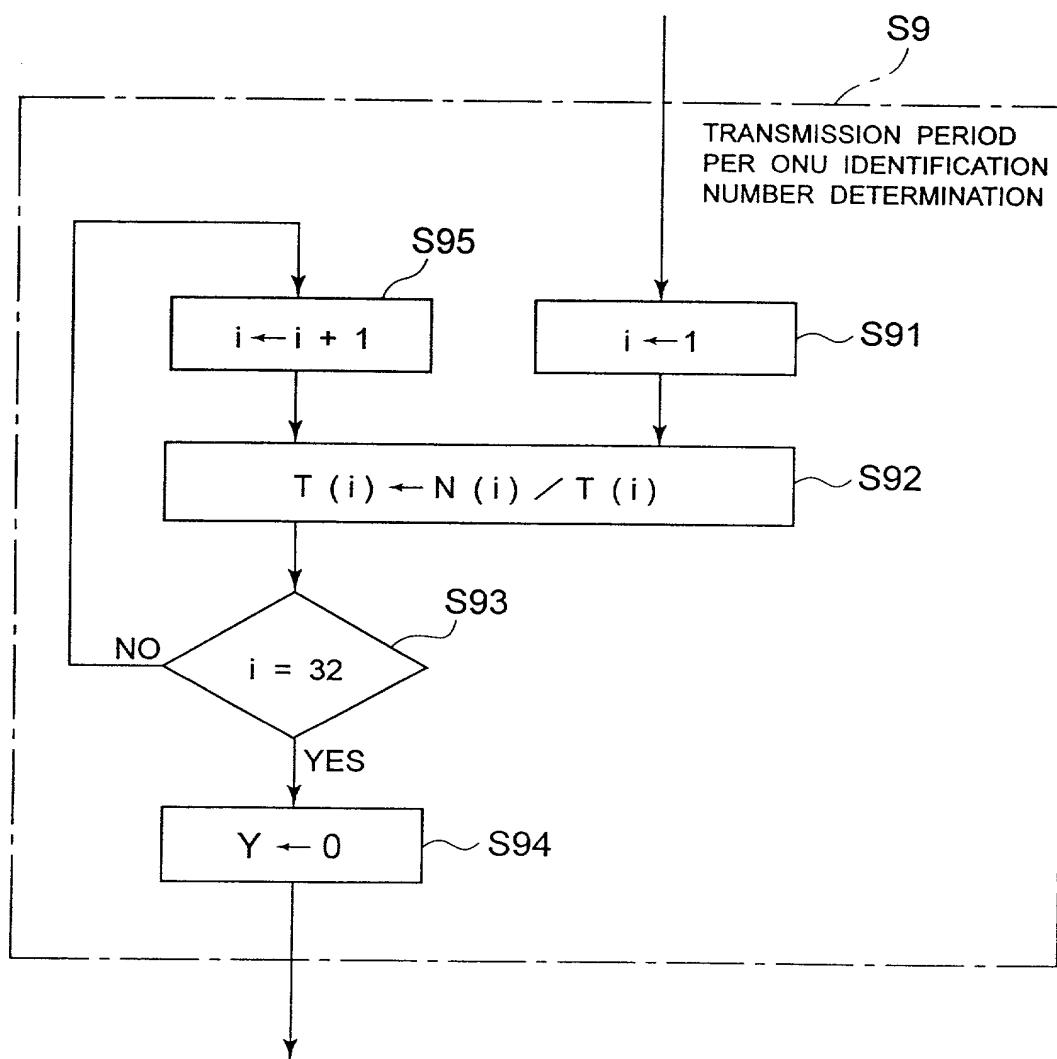
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FIG.22



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FIG.23



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FIG. 24

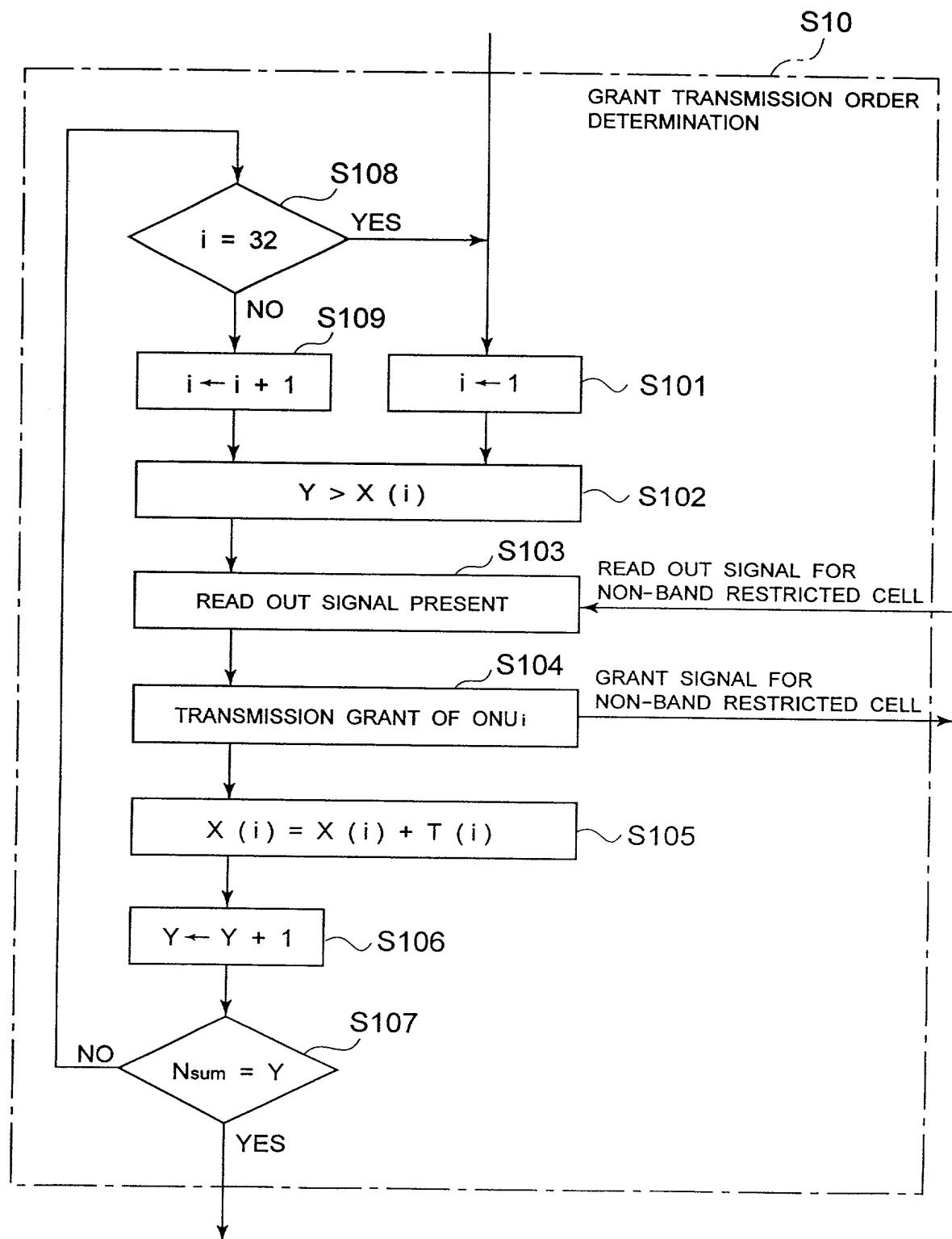
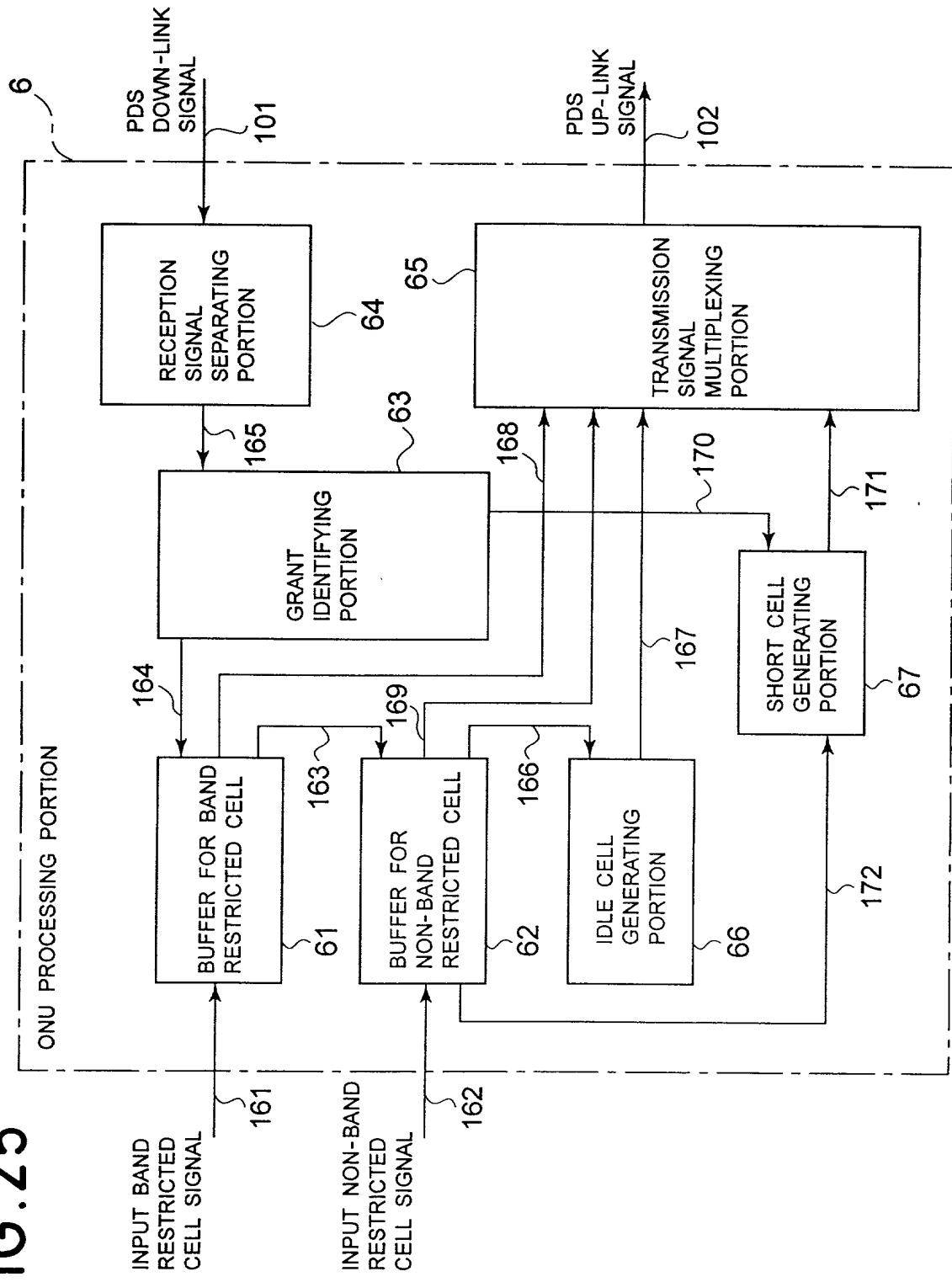


FIG. 25 ONU PROCESSING PORTION



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FIG.26

